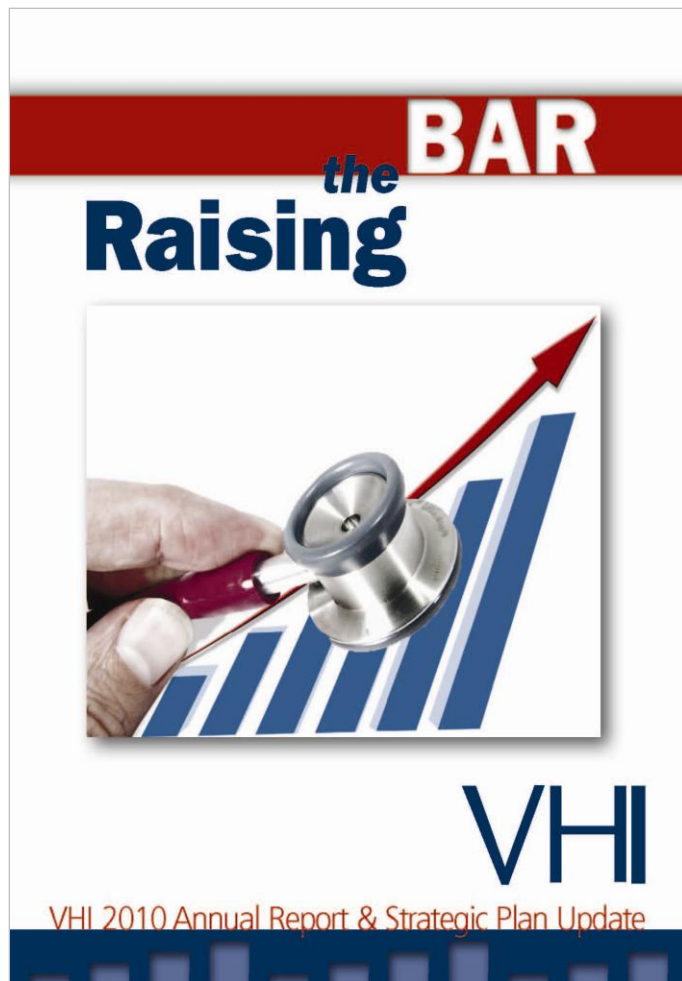


# Virginia Health Information Databases and Applications



## VHI's MISSION

- To create and disseminate health care information
- To promote informed decision making by Virginia consumers and purchasers and
- To enhance the quality of health care delivery

# Virginia Health Information

- Public/Private partnership established through JCHC action in 1993
- Carries out Virginia's health data reporting laws to collect, analyze and disseminate Virginia health care information outlined in § 32.1-276.4
- Named Virginia's consumer health information portal
- Contracts with State Health Commissioner, DMV, DBHDS, AHRQ, Brookings, Anthem, private contracts



## VHI BOARD OF DIRECTORS

### Business Representatives



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Meadwestvaco



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Karen Remley, MD, MBA, Commissioner  
Virginia Department of Health

### EXECUTIVE COMMITTEE



David A. Adams  
VHI President

Jodi L. Fuller  
VHI Vice President

James L. Kammert  
VHI Treasurer

Rome H. Walker, MD  
VHI Secretary

# VHI Databases

- **Hospital Discharge Data:** 870,000 discharges per year from 90+ hospitals – UB-04 Format
- **EPICS:** financial and operational information from 370+ ambulatory surgical centers, hospitals and nursing homes – Custom Format
- **Outpatient Surgical Data:** for 7 procedure groups from ambulatory surgery centers, hospitals and physicians HCFA 1500 /UB-04 format
- **HMO Data:** from State Corporation Commission and National Committee on Quality Assurance – NCQA provided Spreadsheets (HEDIS & CAHPS)
- **Long-term care:** 1,500 + adult day care, assisted living, CCRCs, home care and nursing facilities : Custom Format
- **Hospital and other facility licensure data-** Custom Format
- **VACODES:** Police Crash Reports, EMS, Discharge Data, Vital Records
- **Obstetric Information:** Hospital Discharge, survey, Dept of Health Professions, Vital Records: Custom Format
- **Health Care Pricing Information:** Average of Virginia Health Insurance Carrier “Allowed” amount for 31 health care services: Custom Format

# VHI Publications and Programs

## Ongoing

- Consumer Guides: Hospital, Health Insurance and Long-Term Care
- Cardiac Care: Hospital Mortality & Readmission Reports
- HMO Quality & Performance
- Patient Level Data
- Facility Financial Information (EPICS)/Annual Licensure Survey (for CON)
- CODES: Crash Outcome Data Evaluation System w/ Initiatives
- Obstetrical Services: A Consumer's Guide
- Pricing Transparency
- Anthem Pay-for-Performance Program (Q-HIP) in Virginia and 9 other states
- Hospital Patient Satisfaction





## CARDIAC CARE

INTRODUCTION  
 COMPARE HOSPITALS  
 STATEWIDE SUMMARIES  
 TYPES OF CARDIAC CARE  
 PHYSICIANS  
 HEART ATTACK WARNING  
 SIGNS & PREVENTION  
 REPORT METHODOLOGY

Is this information helpful?

- ☐ Yes  
☐ No



[Home](#) > [Virginia Hospitals](#) > [Cardiac Introduction](#) > [Compare Hospitals](#) > Cardiac Report Results

## Virginia Cardiac Reports - 2008

2005 2006 2007 2008

[Click here for printer friendly version](#) 

Show Key

Show Detail View

Definitions

All Virginia

Click any column to sort

### Cardiology Medical

Hospital Name (click on hospital name for hospital details)	Total Cases	Mortality Rating	Readmission Rating
Augusta Health	795	♥♥♥	♥♥♥
Bon Secours Memorial Regional Medical Center	773	♥♥♥	♥♥♥
Bon Secours St. Francis Medical Center	699	♥♥♥	♥♥♥
Bon Secours St. Mary's Hospital	1042	♥♥♥	♥♥♥
VCU Health System	1535	♥♥♥	♥
Henrico Doctors' Hospital	1275	♥♥	♥♥♥
Inova Fair Oaks Hospital	727	♥♥	♥♥♥
Prince William Hospital	769	♥♥	♥♥♥
Rappahannock General Hospital	319	♥♥	♥♥♥
Riverside Tappahannock Hospital	394	♥♥	♥♥♥
Sentara Leigh Hospital	1211	♥♥	♥♥♥
Sentara Virginia Beach General Hospital	1273	♥♥	♥♥♥
Virginia Hospital Center	808	♥♥	♥♥♥
Alleghany Regional Hospital	509	♥♥	♥♥
Bath County Community Hospital	96	♥♥	♥♥
Bedford Memorial Hospital	276	♥♥	♥♥
Bon Secours DePaul Medical Center	638	♥♥	♥♥
Bon Secours Mary Immaculate Hospital	654	♥♥	♥♥
Bon Secours Maryview Medical Center	1432	♥♥	♥♥
Bon Secours Richmond Community Hospital	255	♥♥	♥♥
CJW Medical Center	1745	♥♥	♥♥
Carilion Franklin Memorial Hospital	281	♥♥	♥♥
Carilion Giles Memorial Hospital	256	♥♥	♥♥



## OBSTETRICS CARE GUIDE

- INTRODUCTION
- ABOUT THIS GUIDE
- TYPES OF DELIVERY: VAGINAL
- TYPES OF DELIVERY: CESAREAN
- ABOUT THE DATA
- HOW MUCH WILL I PAY?
- YOUR HEALTH INSURANCE
- OB TERMS
- LEARN MORE
- COMPARE HOSPITALS
- COMPARE PHYSICIANS
- ENDORSEMENTS
- STATEWIDE SUMMARIES
- TECHNICAL REPORT

Is this information helpful?

☐ Yes

☐ No

**WIN** a Gift Certificate!




[Home](#) > [Obstetrics Introduction](#) > [Compare Hospitals](#) > Obstetric Report Results

































































































## Virginia Obstetrics Reports

Click here for printer friendly version 

Performance Staffing and Services Features Prenatal Care Postpartum and Discharge

Click any column to sort

 = Better than expected performance

Hospital Name (click for all hospital information)	Deliveries	Cesarean			Episiotomy		Hospital Length of Stay		Average Hospital Charge	
		Primary Act. Rate	Primary Rating	Repeat Rating	Vaginal Deliveries	Episiotomy Rates	Vaginal Rating	Cesarean Rating	Vaginal Rating	Cesarean Rating
<a href="#">Danville Regional Medical Center</a>	1,055	13.92%			839	5.13%				
<a href="#">Centra Health</a>	2,318	18.57%			1,702	7.70%				
<a href="#">Carilion Medical Center</a>	3,305	23.01%			2,255	24.12%				
<a href="#">Wellmont Lonesome Pine Hospital</a>	268	18.61%			188	37.23%				
<a href="#">Twin County Regional Hospital</a>	400	20.06%			287	29.97%				
<a href="#">Smyth County Community Hospital</a>	304	22.51%			210	31.90%				
<a href="#">Norton Community Hospital</a>	453	18.47%			331	16.62%				
<a href="#">Johnston Memorial Hospital</a>	638	17.08%			467	36.19%				
<a href="#">Clinch Valley Medical Center</a>	478	21.26%			338	49.11%				
<a href="#">Carilion New River Valley Medical Center</a>	1,027	26.86%			655	34.05%				
<a href="#">Carilion Franklin Memorial Hospital</a>	253	20.00%			173	7.51%				
<a href="#">Bedford Memorial Hospital</a>	207	20.74%			151	4.64%				
<a href="#">Wythe County Community Hospital</a>	250	40.09%			127	26.77%				
<a href="#">Montgomery Regional Hospital</a>	526	24.49%			341	8.50%				
<a href="#">Memorial Hospital of Martinsville &amp; Henry County</a>	571	22.98%			383	30.03%				
<a href="#">Lewis-Gale Medical Center</a>	615	28.73%			392	53.32%				

[Begin A New Search](#)

Let us know what you like about this information or would like changed. Please click below.



## PATIENT SATISFACTION SURVEY

Published July 2010

### What Did Patients Say About Their Hospital?



- *"I recommend this hospital"*
- *"My pain was always controlled"*
- *"Doctors and nurses communicate well"*
- *"My room was clean and quiet"*

#### METHODOLOGY

Compare hospitals' satisfaction ratings with Virginia and US Averages.

**EITHER**

Enter 5 digits VA zip code:

within  miles

**OR**

Choose All or some hospitals

- All
- Alleghany Regional Hospital
- Augusta Health
- Bath County Community Hospital
- Bedford Memorial Hospital
- Bon Secours DePaul Medical Center
- Bon Secours Mary Immaculate Hospital
- Bon Secours Maryview Medical Center
- Bon Secours Memorial Regional Medical Center
- Bon Secours Richmond Community Hospital

*\*Hold the ctrl key and click each hospital you want to include in your report.*

[View Hospitals](#)





## HOSPITALS

INTRODUCTION

VIRGINIA HOSPITALS

HOSPITAL INFORMATION

CARDIAC CARE

OBSTETRIC CARE GUIDE

PATIENT SATISFACTION

SERVICE LINE REPORT

HOSPITAL COMPARE

LEAPFROG

VHHA PRICE POINT

Is this information helpful?

☐ Yes

☐ No

[Home](#) > [Hospitals](#) > [Patient Satisfaction Survey](#) > Results

## Hospitals Patient Satisfaction Survey

OVERALL

COMFORT

COMMUNICATION

### Overall

Click any column to sort

Detail View

Normal View

Click here for graphic printer friendly

Higher % is better.

HOSPITAL (click hospital name for more)	Patients who gave a overall rating of 9 or 10 (highest) ▲	Patients would definitely recommend the hospital
<a href="#">Stafford Hospital Center (*8)</a>	N/A	N/A
<a href="#">Pioneer Community Hospital of Patrick County, Inc. (*8)</a>	N/A	N/A
<a href="#">Dickenson Community Hospital (*8)</a>	N/A	N/A
<a href="#">Bath County Community Hospital (*8)</a>	N/A	N/A
<a href="#">Bon Secours St. Francis Medical Center</a>	78 %	81 %
<a href="#">Winchester Medical Center</a>	78 %	86 %
<a href="#">Bon Secours Memorial Regional Medical Center</a>	77 %	80 %
<a href="#">Montgomery Regional Hospital</a>	75 %	76 %
<a href="#">Martha Jefferson Hospital</a>	74 %	83 %
<a href="#">Bon Secours St. Mary's Hospital</a>	73 %	78 %
<a href="#">Centra Health</a>	73 %	81 %
<a href="#">Carilion Franklin Memorial Hospital</a>	71 %	71 %
<a href="#">Inova Loudoun Hospital</a>	71 %	74 %
<a href="#">Henrico Doctors' Hospital</a>	71 %	75 %
<a href="#">Virginia Hospital Center</a>	71 %	78 %
<a href="#">Inova Fair Oaks Hospital</a>	71 %	80 %
<a href="#">Carilion Giles Community Hospital</a>	70 %	70 %
<a href="#">Carilion Medical Center</a>	70 %	73 %
<a href="#">Sentara Norfolk General Hospital</a>	70 %	75 %
<a href="#">Prince William Hospital</a>	69 %	70 %
<a href="#">Carilion New River Valley Medical Center</a>	69 %	75 %
<a href="#">Fauquier Hospital</a>	69 %	76 %
<a href="#">Southampton Memorial Hospital</a>	68 %	61 %

## OUTPATIENT

### Learn about Outpatient Tests and Surgery

Many tests and surgeries don't require an overnight hospital stay.

Often they are performed in :

- Hospital Outpatient Departments
- Licensed Ambulatory Surgical Centers
- Doctors offices and other centers

Use our information to:

- Learn about the surgery, risks and benefits
- Find facilities by location
- How many .... they do, and
- How much they charge.

[Learn more about outpatient](#)

#### Step 1: Choose outpatient procedures

- ☐ All Procedure
- ☐ Breast surgery ?
- ☐ Colonoscopy ?
- ☐ Facial surgery ?
- ☐ Gall bladder removal ?
- ☐ General laparoscopic procedures ?
- ☐ Hernia repair ?
- ☐ Hysterectomy ?
- ☐ Knee surgery ?
- ☐ Laparoscopy & laparoscopic surgery ?
- ☐ Liposuction ?
- ☐ Other gynecological procedures ?

#### Step 2: EITHER

Enter 5 digit VA zip code:  within  miles

OR

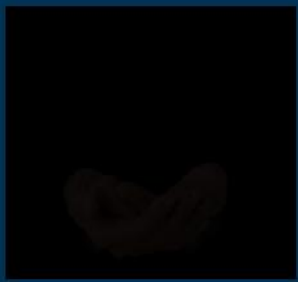
#### Choose All or some facilities

All  
Advanced OB/GYN (P)  
Advanced Orthopaedic Centers (P)  
Aesthetic Surgery of VA (P)  
Alleghany Regional Hospital (H)  
Associates in Plastic Surgery, Inc. (P)  
Augusta Eye Associates (P)





- HEALTH INSURANCE**
- HEALTH INSURANCE INTRODUCTION
- HEALTH INSURANCE OPTIONS
- HEALTH CARE PRICES
- HMO REPORTS
- HMO PROFILES
- COMPARE HMOs
- FIND HMOs IN YOUR COUNTY
- APPLY FOR MEDICARE
- APPLY FOR MEDICAID
- OTHER HMO WEBSITES



[Cardiac Care Available Now](#)

[Home](#) > Health Care Prices

## How Much Should I Pay?

Today, more people are paying for all or a greater share of their healthcare costs. Not having health insurance or membership in [high deductible health plans](#) are some reasons for this.

How much you pay for a doctor's visit, medical test or surgery can depend on which doctor, hospital or other healthcare provider you choose.

This report lists the average dollar amount health insurance companies allow for 31 health care services.



[Click Here To See The Report](#)

[About this information](#)

## Here's How This Report Can Help You

**Are you uninsured?**

Talk with your health care provider about their price before you get care. Use our price information to negotiate a price as close to or lower than the price listed. Get any agreement in writing.

**Do you have a [High Deductible Health Plan](#) or high [co-pay](#)?**

Use this information to get an idea of the amount insurance companies allow for these services. Then call providers and compare their prices before you get care. Like many things you buy, prices vary.

**Updated September 2010**

Visit Virginia CODES ([www.vaCodes.org](http://www.vaCodes.org)) for information on motor vehicle crashes, costs and outcomes.



## HEALTH INSURANCE

HEALTH INSURANCE  
INTRODUCTION

HEALTH INSURANCE  
OPTIONS

HEALTH CARE PRICES

HMO REPORTS

HMO PROFILES

COMPARE HMOs

FIND HMOs IN YOUR  
COUNTY

APPLY FOR MEDICARE

APPLY FOR MEDICAID

OTHER HMO WEBSITES

Is this information  
helpful?

- ☐ Yes  
☐ No



NOW AVAILABLE

CARDIAC

[Home](#) > [Health Care Prices](#) > [Guides To Services](#) > Hernia Repair

## Hernia Repair



An inguinal hernia happens in adult men. Part of the small intestine or bladder squeezes through a tear or other opening in the abdominal wall. The organ pushes out of its normal space into the inguinal canal, or groin area. For the surgery, the surgeon can numb the patient from the waist down or give drugs to make the patient sleep through the procedure. The organs are pushed back into place and the hole in the abdominal wall is closed.

[More on this health care service...](#)



Payer	Average Allowed Amount			
	Ambulatory Surgical Center	Physician Office	Hospital Outpatient Department	Hospital Inpatient
Commercial	\$2,233	N/A	\$2,840	N/A
Medicare	\$1,111*	N/A	\$1,728-\$2,033	N/A

Let us know what you like about this information or would like changed. Please click below.

[Tell us what you think!](#)

## Definitions

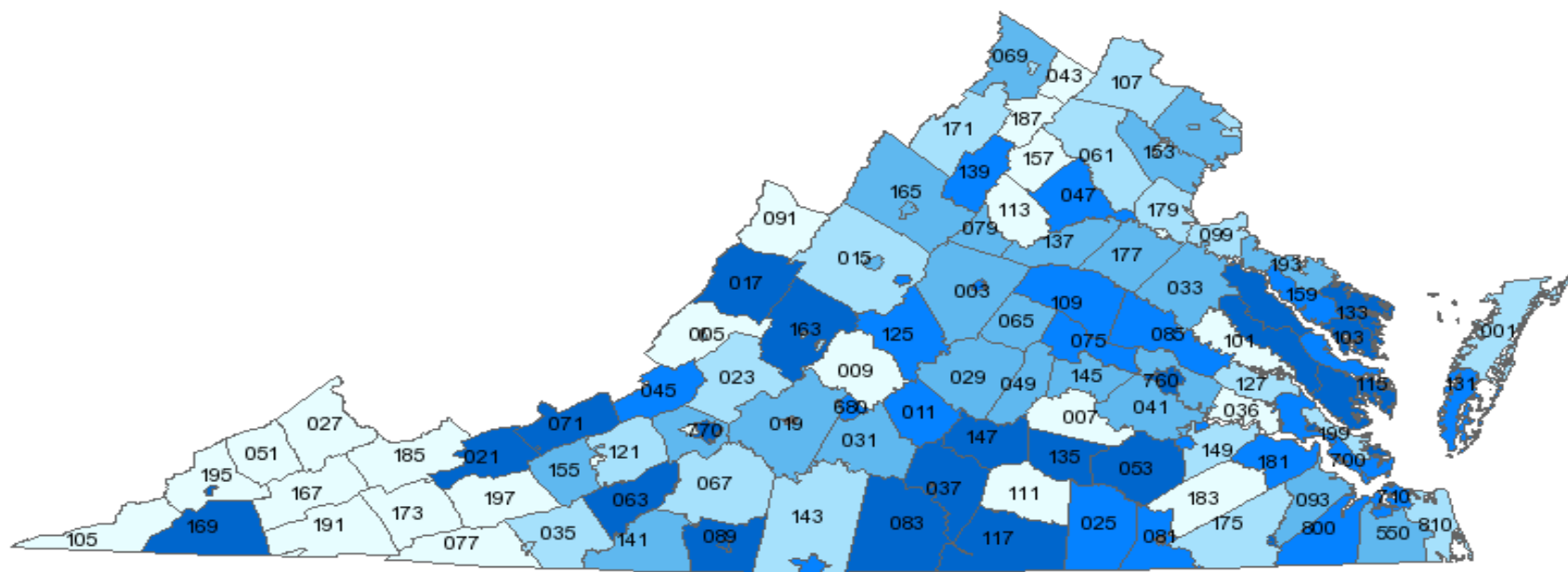
- **Average Allowed Amount:** VHI obtained the average dollar amount allowed in 2009 for the health care service from eight health insurance carriers. VHI averaged these amounts. A carrier's average allowed amount is usually a discounted amount that is often less than full charges. For some inpatient procedures the carriers paid a percent of the amount that Medicare pays. Included in this amount are commercial (non-government) , fully insured, in-network plans for services provided by Virginia providers and members in contracts written and issued in Virginia.
- **Ambulatory Surgical Center:** Generally, a freestanding licensed ambulatory diagnostic or surgical center. The amount usually includes the surgeon's fees, but not the anesthesiologist.
- **Physician Office:** Services performed in a physicians office. The amount usually includes the surgeon's fees, but not the anesthesiologist.
- **Hospital Outpatient Department:** Services provided to patients at a hospital outpatient department when a patient is not admitted for inpatient hospital care. The amount reported usually includes the surgeon's fees, but not the anesthesiologist
- **Hospital Inpatient:** Services provided in a licensed hospital where patients are admitted and would normally stay overnight. Surgeon's

## Virginia

[Summary Table and Potential Cost Savings](#)

## Low birth weight rate (2009, PQI9)

AHRQ estimates a 50% reduction on LBW would save over \$ 73,000,000 in hospital costs annually



Observed rate per 100 discharges

Not enough data

0.00 - 4.31

4.62 - 5.57

5.59 - 6.82

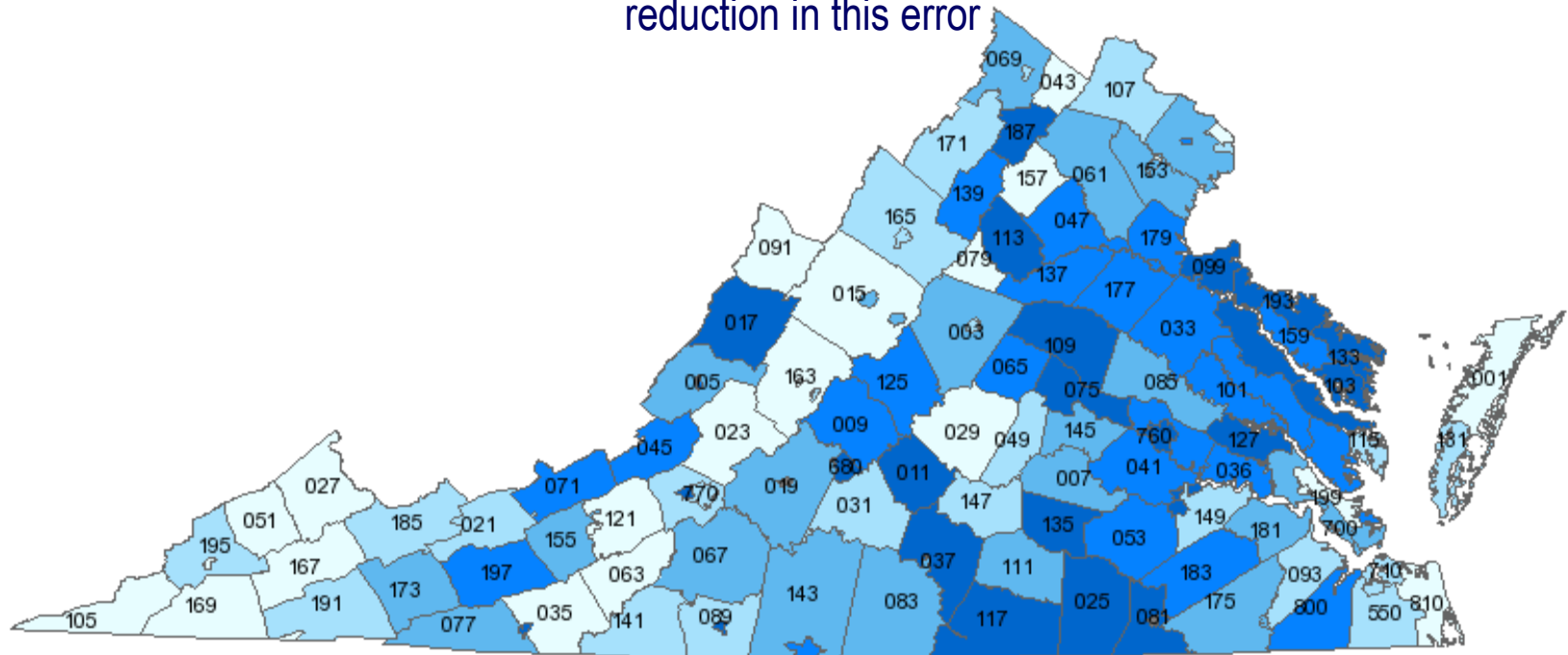
7.02 - 8.44

8.51 - 50.00

APCD data would add outpatient and ancillary costs to estimated savings



AHRQ estimates a inpatient hospital cost savings of 26 million dollars with a 50% reduction in this error



■ Not enough data

0.00 - 16.80

16.83 - 26.26

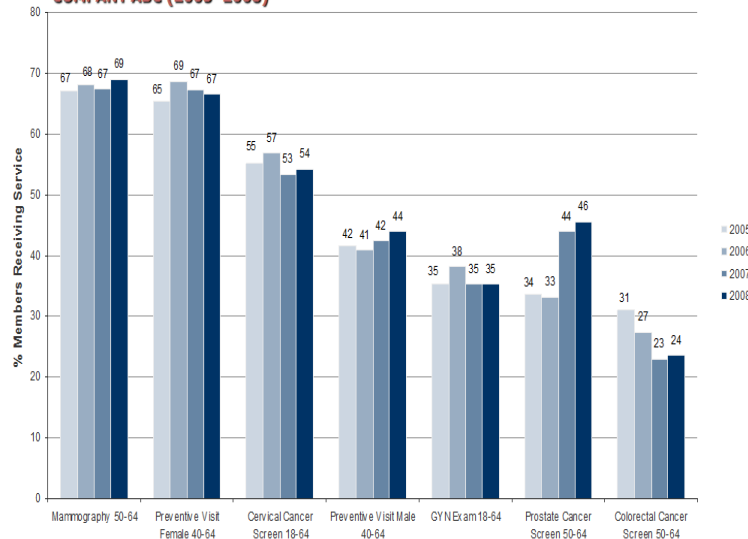
# APCDS and HMO-Hedis

## APCD Statewide Colorectal and other Screening Measures

## Virginia HMO Colorectal Cancer Screening Rates

### Percent Members Receiving Preventive Services

#### COMPANY ABC (2005-2008)



SOURCE: NHPGH

44

Copyright 2009-2010 APCD Council, NAHDO, UNH

Colorectal Cancer Screening		
Plan Name	State Average: 63.31% National Avg: 61.69% 90th Percentile: 74.21%	2009 Rate
CIGNA HealthCare of the Mid-Atlantic, Inc.	<div></div>	72.37%
MD - Individual Practice Association, Inc. (M.D. IPA)	<div></div>	67.59%
Optima Health Plan	<div></div>	66.81%
Kaiser Foundation Health Plan of the Mid-Atlantic States, Inc.	<div></div>	65.51%
HealthKeepers, Inc.	<div></div>	65.05%
Southern Health Services, Inc.	<div></div>	63.81%
Aetna Health Inc. (Maryland)	<div></div>	62.26%
UnitedHealthcare Services Company of the River Valley, Inc.	<div></div>	61.34%
Optimum Choice, Inc.	<div></div>	59.26%
CareFirst BlueChoice	<div></div>	57.77%
UnitedHealthcare of the Mid-Atlantic, Inc.	<div></div>	54.63%

NOW AVAILABLE



Cardiac Care  
Available Now

\*HealthKeepers is the product for  
HealthKeepers, Inc, Peninsula Health Care, Inc. and Priority Health Care, Inc.

Let us know what you like about this information or would like changed. Please click below.

[Tell us what you think!](#)

Visit Virginia CODES ([www.vaCodes.org](http://www.vaCodes.org)) for information on motor vehicle crashes, costs and outcomes.

102 N. 5th Street | Richmond, VA 23219 | Phone (804) 643-5573 | Fax (804) 643-5375 | Toll Free 1-877-VHI-INFO (844.4636)

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# All Payer Road Map

## Engagement

- Stakeholder Identification
- Education
- Partnerships
- Advocates



## Governance

- Governance Model
- Structure
- Rules for Collection and Release
- Standards Adoption



## Sustainability

- Initial Funding
- Revenue Model



## Technical Build

- Vendor Decision
- Maintenance
- Linkage to Other Data Sources



## Analysis & Application Development

- Reporting
- Applications
- Meta Data

Virginia has addressed many of these areas through other health data reporting initiatives

# More Information...

Michael Lundberg, Executive Director

Virginia Health Information

102 N. 5<sup>th</sup> Street

Richmond, VA 23219

(804) 644-7026

[www.vhi.org](http://www.vhi.org)